

AF R-TOC PILOT PROGRAM C/KC-135

**Deputy C/KC-135
SPO
Mr. Jack Srnec
OC-ALC**



Overview

- **C/KC-135 Demographics**
- **Total Ownership Cost**
 - **Drivers**
 - **Impediments**
 - **Strategy**



C/KC-135

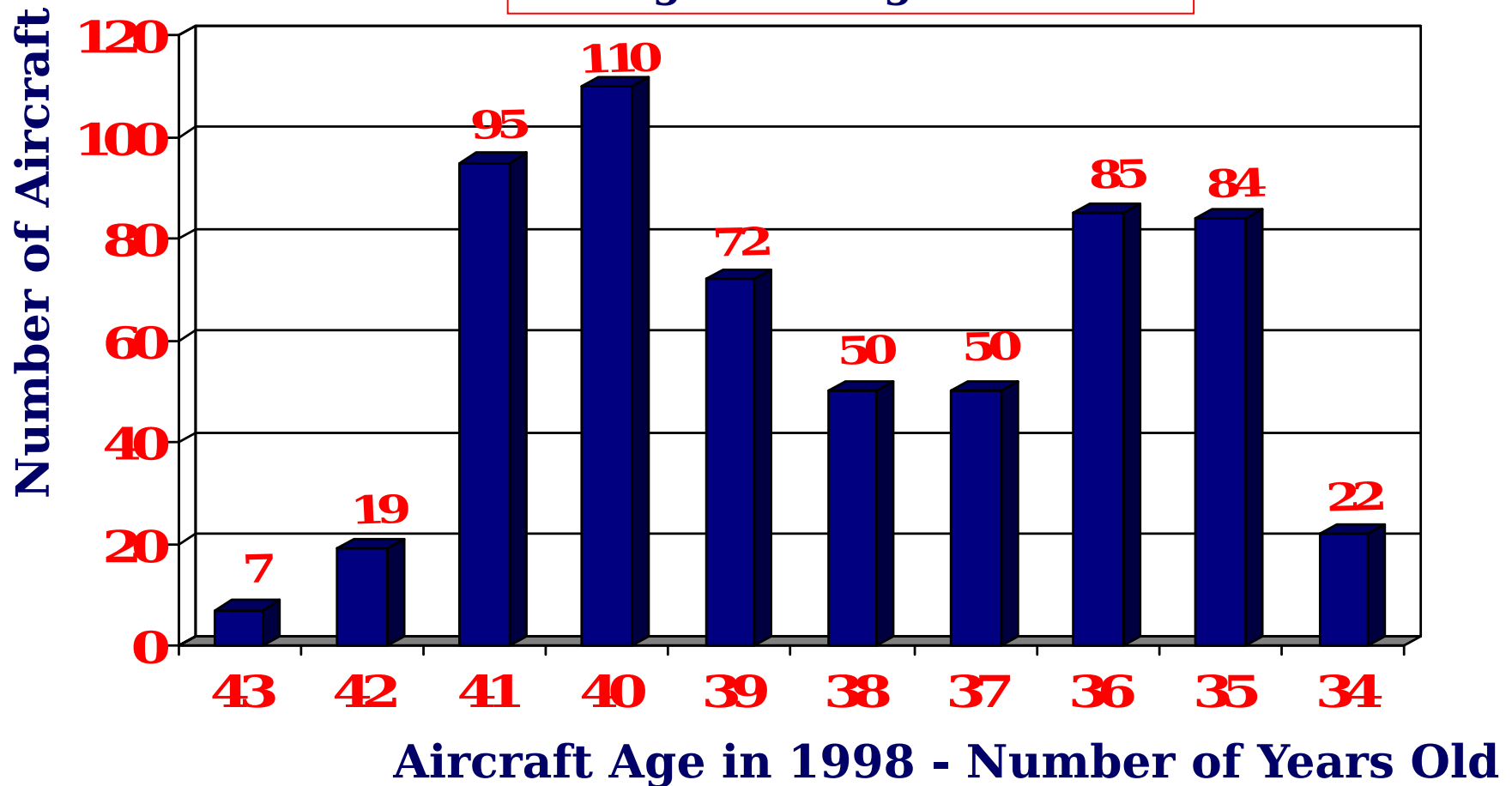
Program Description

- **Fleet**
 - **Average Age 38 Years**
 - **594 Aircraft (548 Tankers, 46 Special Purpose)**
 - **23 Different MDS**
 - **36 Locations Worldwide**
- **Customers**
 - **8 MAJCOMS**
 - **4 PDM Facilities**
 - **3 Foreign Military Customers**
 - **NASA**



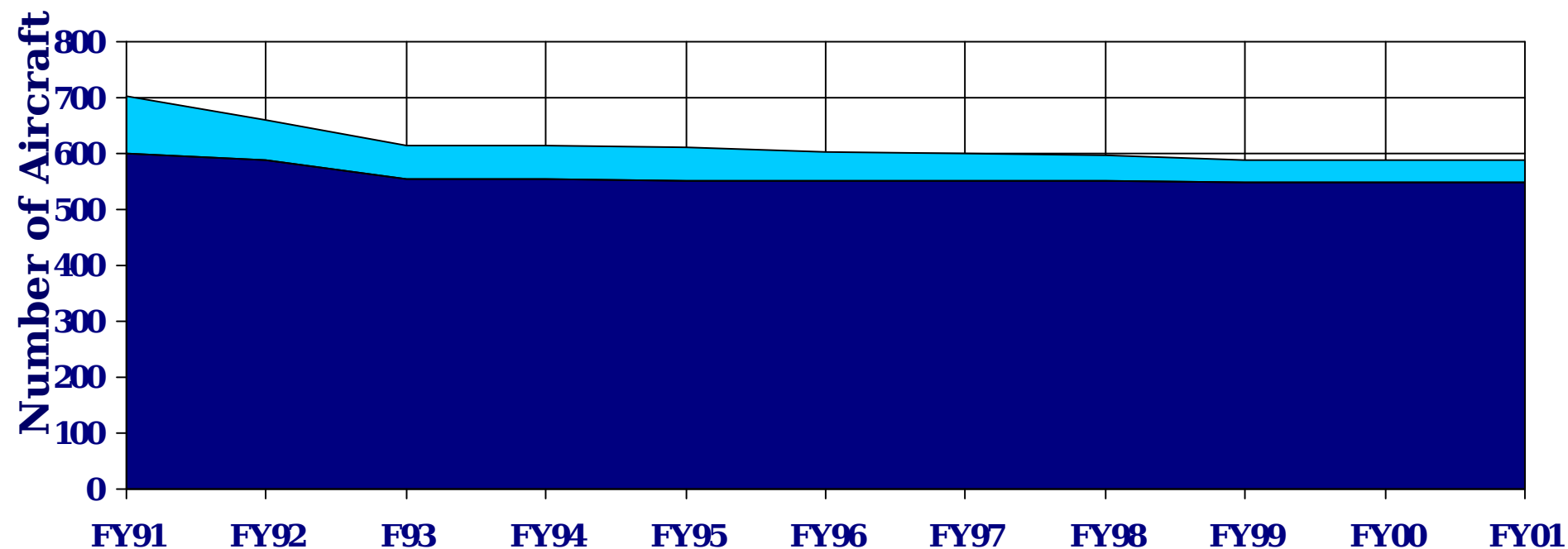
Fleet Age C/KC-135

Average Fleet Age: 38 Years





Force Structure C/KC-135



	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
Tankers ■	600	590	553	553	552	552	552	548	548	548	548
Special Purpose ■	102	70	61	60	59	52	49	45	40	40	40
Total	702	660	614	613	611	604	601	593	588	588	588



Inventory - Overview

C/KC-135

AMC
KC-R
140
KC-T
54
EC-N
1
ECANG
KQ-E 116
KG-R 104
TOTAL 196
KQ-D 4
C-B 1
TOTAL 225

ACC
KC-R 7
KC-E
0
RC-S 3
RC-U 2
RC-V 8
RC-W 8
TC-S 1
TC-W 1
EC-C 5
OC-B 2
WC-W 1
TOTAL 38

AFMC
C-C
1
C-E
2
EC-E
1
NKC-B
1
NKC-E
2
PACAF
KC-R 15
WC-W 1
KC-E 1
ECK 1
KC-R 1
C-E 1
TOTAL 18

NASA
KC-A 1

TANKERS - 548

E
136
T
54
D

PRODUCED:
808 **R**
ACTIVE:

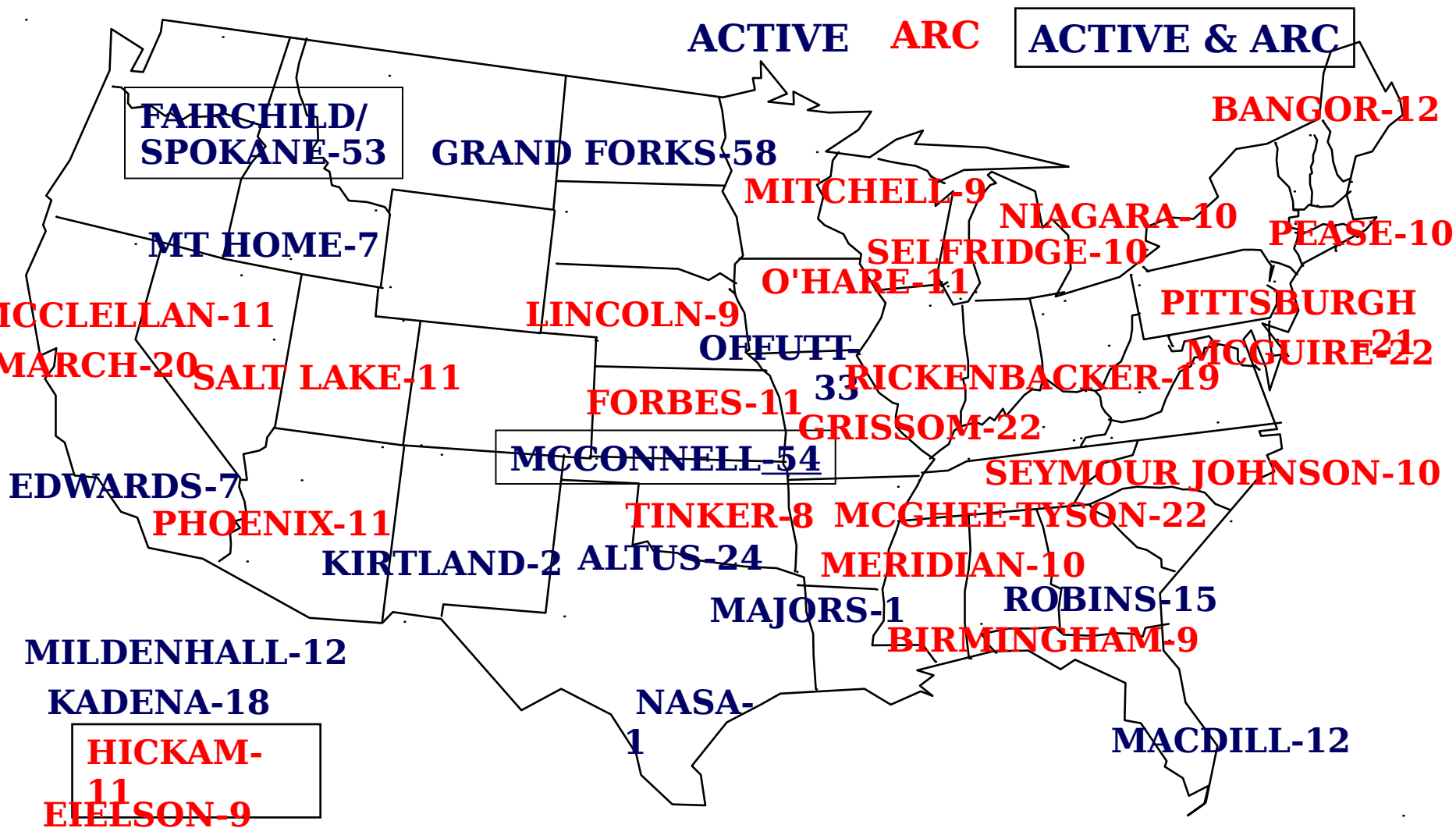
594
ATTRITES:
85 **AMARC:**
88
GROUND TRNG
10
DISPLAY:
17
FMS:
France

AFRC
KC-R
50
KC-E
20

AETC **USAFE**
KC-R 24 **KC-R** 13

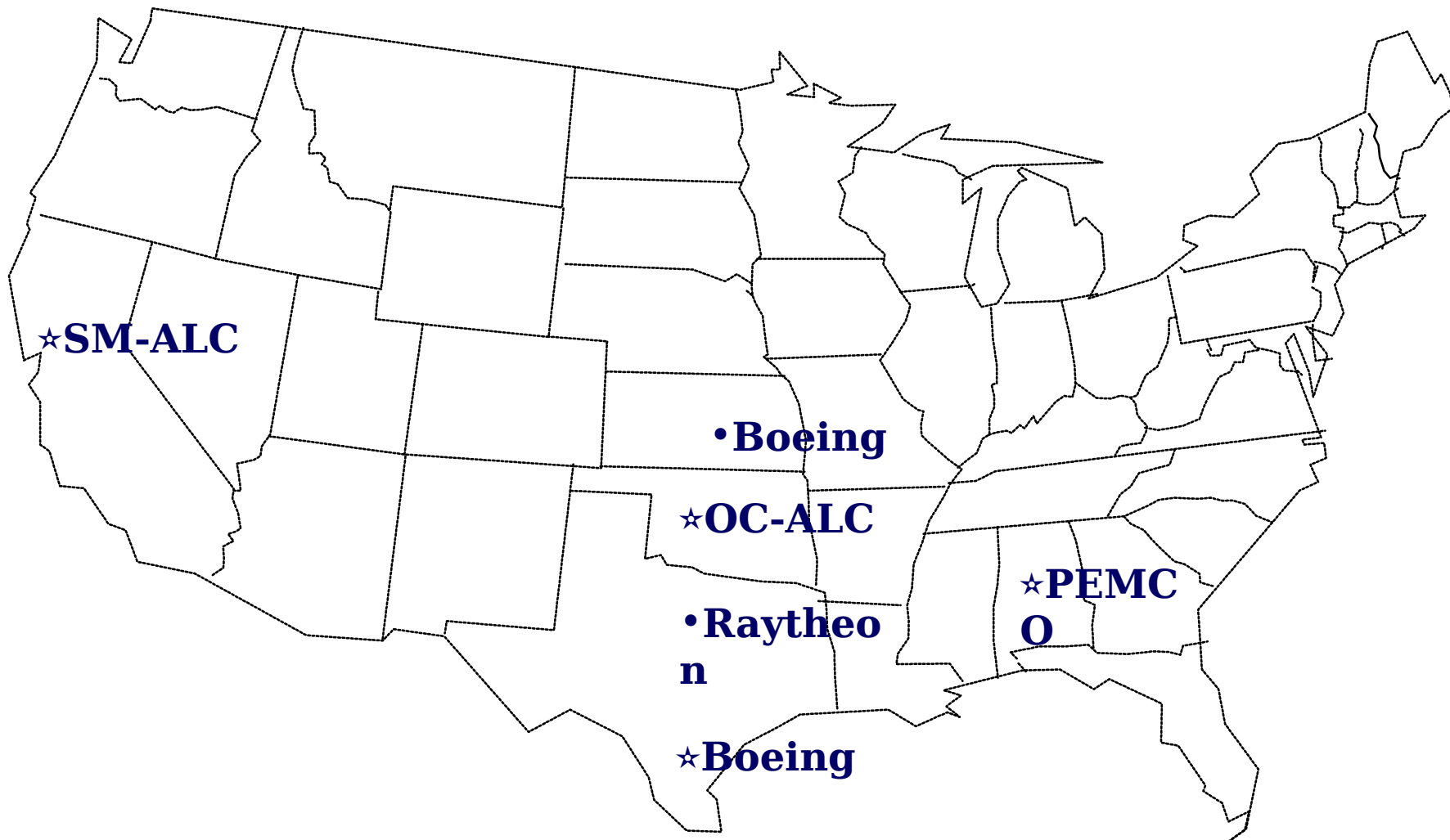


Basing C/KC-135





C/KC-135 Repair Depots





Readiness Measures

Key Program Parameters

	STD/ FY98	FY96	FY97	FY98	Apr	May	Jun	Jul	Aug	Sep
MC Rate (%)	79%	80	80	78	78	79	79	79	78	78
TNMCS Rate (%)	12%	11	11	12	12	10	12	12	12	12
TNMCM Rate (%)	15%	16	16	17	10	11	9	9	10	10
CANN Rate (%)	15%	7	8	8	9	7	9	9	12	NA

STD = Fleet Weighted Average

MC = Mission Capable

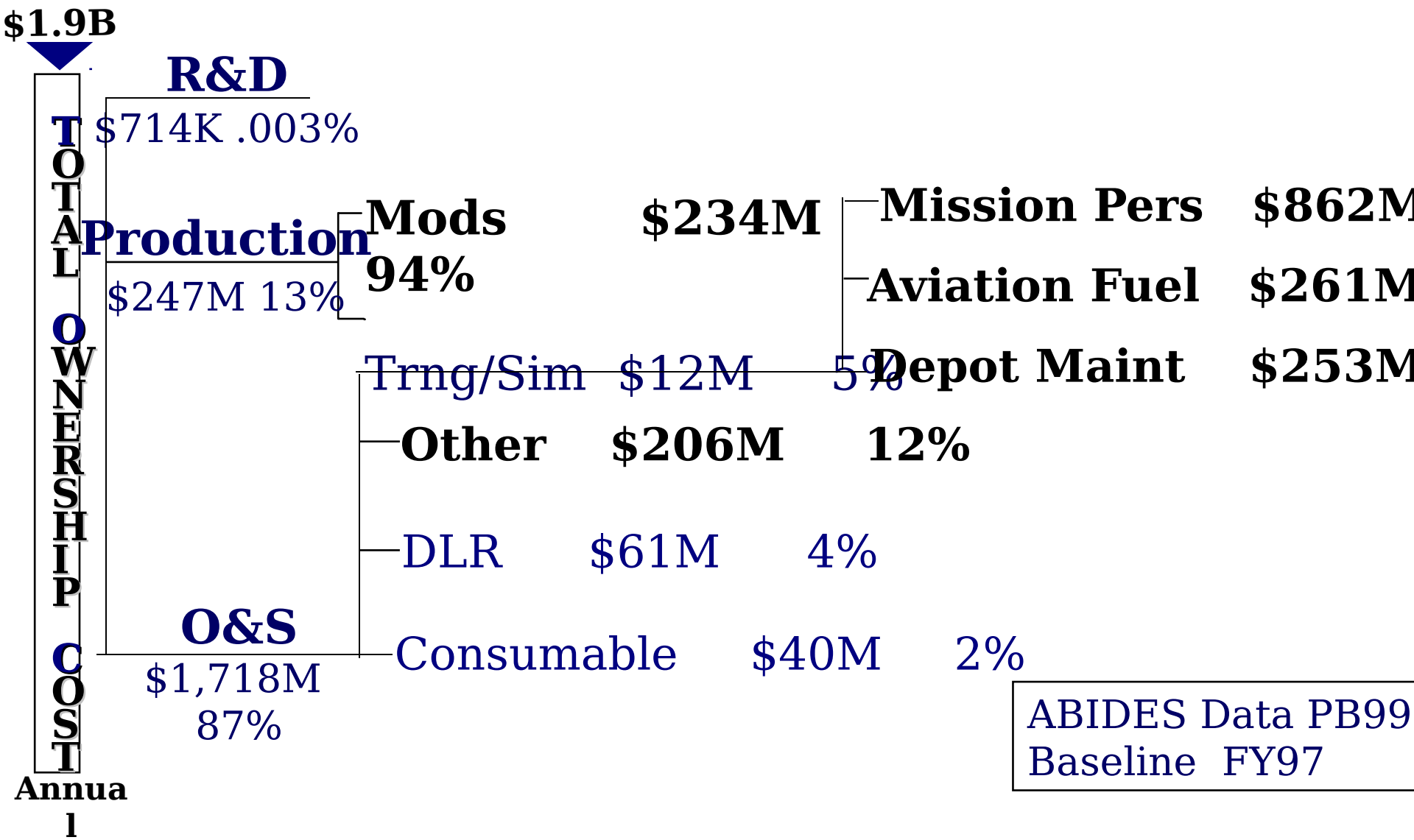
**TNMCS = Total Not Mission Capable
Supply**

**TNMCM = Total Not Mission Capable
Maintenance**



C/KC-135

Total Ownership Costs





Cost Drivers of \$2B Annual TOC

- **Quantity of Aircraft and its Missions**
- **Mandated Operational Capability Increases**
- **Sustainment of an Aging Aircraft**
 - **Modernization Investments**



Impediments to Controlling C/KC-135 TOC

- **Mandated Operational Capability Increases**
 - **\$1.6B**
- **Investments in Modernization**
 - **\$800M**
- **Sustaining An Aging Aircraft to 2040**
- **Adequate Cost Information**



Mandated Operational Capability Increases

- **Keep Aircraft Viable in Worldwide Flying Environment**

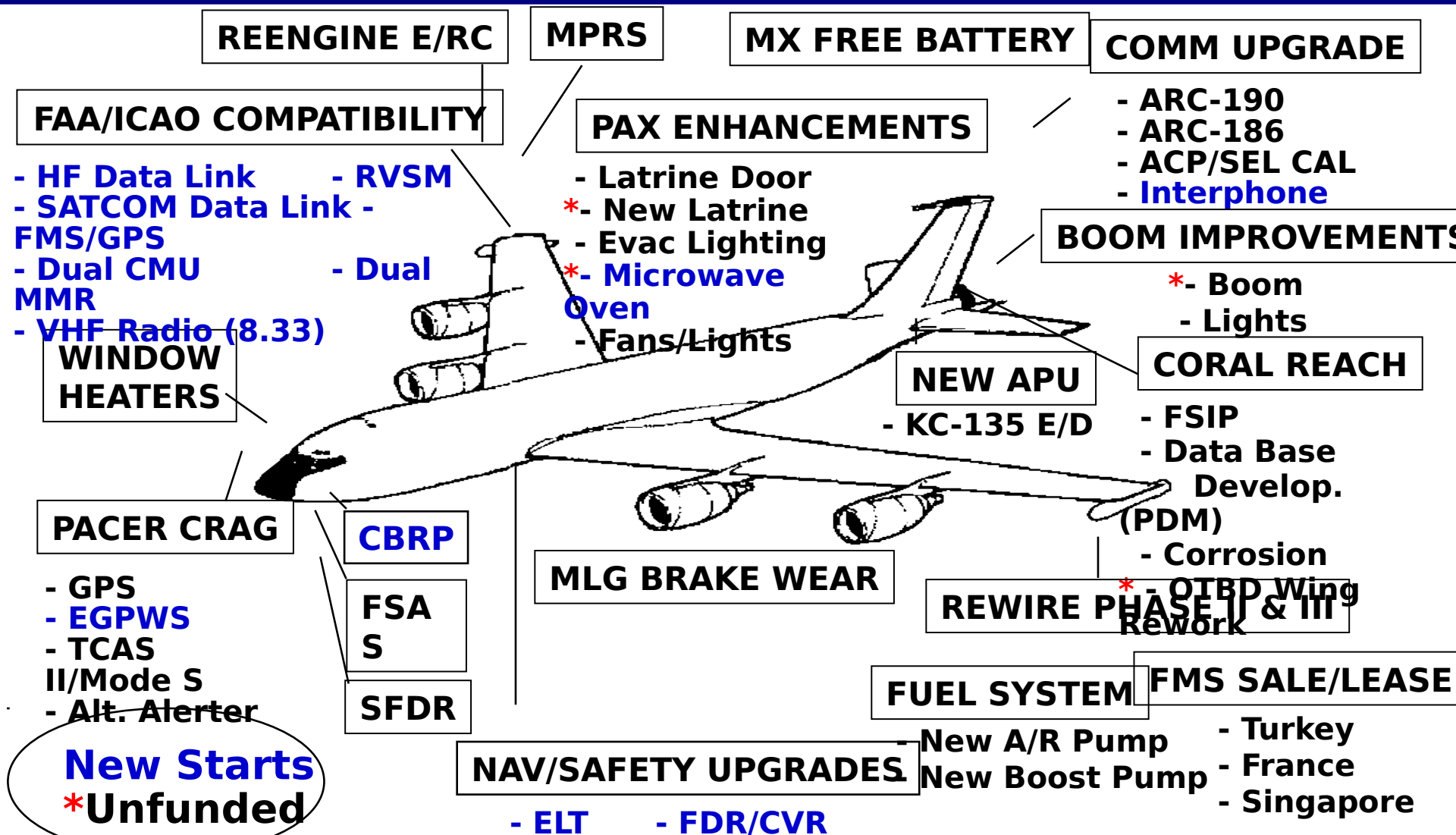
Cost (FY96-05)

- **Navigation - GATM, RVSM** **\$1.1B**
- **Safety - TCAS, EGPWS, Nav Safety**
\$367M
- **Multi-Point - Navy, NATO**
\$178M

TOTAL INVESTMENT COST
\$1.6B



-135 Modernization



New Starts
* **Unfunded**



Investments in Modernization

- **Pacer CRAG**
 - Navigators being removed
 - 39 LRUs Replace with 19

FY98-02
\$670M
- **Coral Reach**
 - C/KC-135 Sustainment Master Plan
 - Safety
 - Cost Per Flying Hr
 - Aircraft Availability

FY97-01
\$29M
- **Re-Engine 407 Aircraft Compl.**
 - 7 Funded

FY79-01
\$6.9B

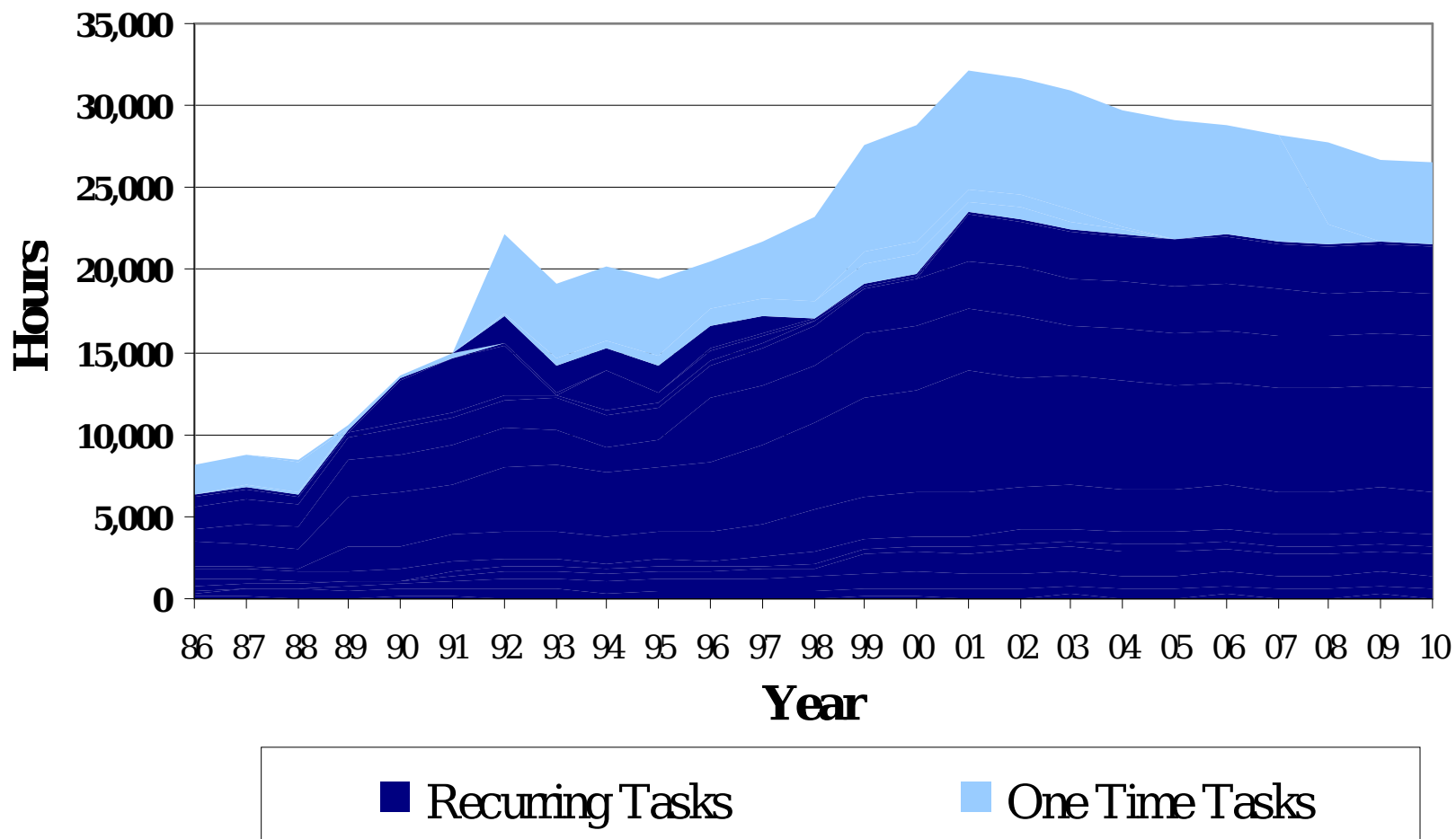


Sustainment Program Depot Maintenance (PDM)

- **Depot Overhaul Ensures a Safe Reliable Aircraft**
 - **Approximately 100 Aircraft Per Year**
 - **5 Year Intervals**
 - **~30,000 Manhours Each**
 - **~\$3.1M Per Overhaul**
 - **Currently Averaging 300 Days**
- **Maintenance Requirements Review Board (MRRB) Controls Cost and Ensures Safety**
 - **Chaired by HQ/AFMC - Includes User, Depot and C/KC-135 SPD**

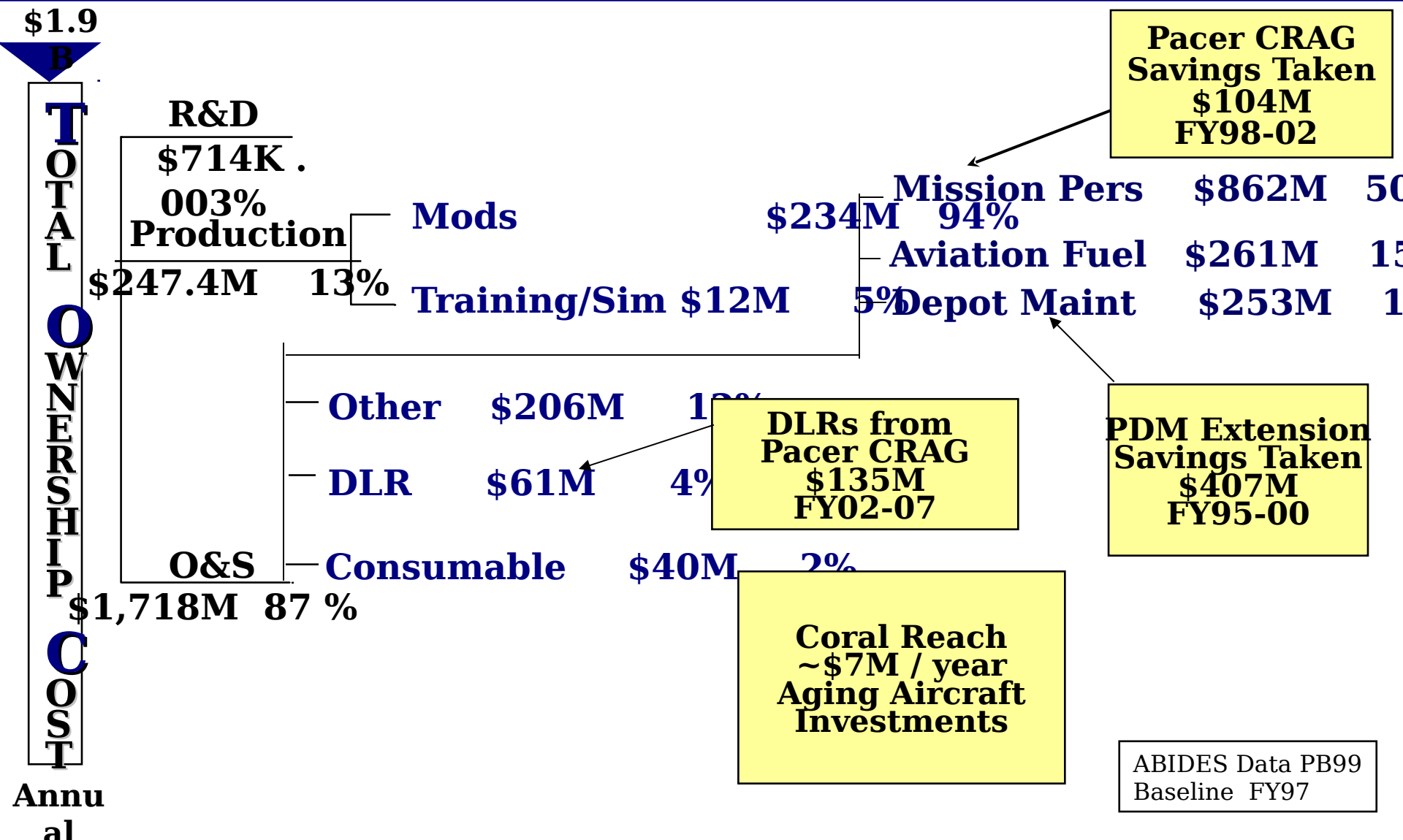


KC-135R PDM Tasks





C/KC-135 TOC REDUCTIONS





Challenges to Modernization

Cost

~~Reduction Effort~~

- **Dynamic Program Schedule**
 - **Complexity in Aircraft Technology**
 - **Modernization**
 - **Processes and Tools**
- **Additional Mandated Operational Requirements**
 - **New Capability (Modernization)**
 - **Enhanced Capability (International Standards)**
- **Projected Savings vs Actual/Proven Savings**
 - **Proof of Actual Savings**



OC Strategy to Maintain Fleet

- **Continue Modernization and Maintenance Actions**
 - Acquisition Reform
 - Warranties/Increased Reliability
 - MRRB Process
- ***Aircraft Structurally Sound thru 2040 with Proper Maintenance***